

Sup

1. (Previously Amended) An electrophoretic display device of a cell structure, comprising:

- at least two electrodes;
- fixing surfaces each associated with one of said at least two electrodes;
- an electrophoretic layer disposed in the cell and comprising an insulating liquid and colored charged particles disposed in said electrophoretic layer; and
- voltage application means for applying a voltage between said electrodes thereby causing migration of said colored charged particles toward and collective attachment onto one of said fixing surfaces,

wherein said colored charged particles have a surface adhesive layer which allows for repetitive attachment onto and separation from said fixing surfaces, and said surface adhesive layer comprises a polymer having a glass transition temperature (T_g) of -35°C to +35°C.

El Cont

2. (Canceled)

3. (Original) A display device according to Claim 1, wherein said fixing surfaces are each given as a surface of one of said at least two electrodes.

4. (Original) A display device according to Claim 1, wherein said insulating liquid has a volumetric resistivity of at least 10^{12} ohm.cm.

5. (Previously Amended) A display device according to Claim 1, wherein said two electrodes are oppositely disposed in the cell structure so as to allow vertical movement of said colored charged particles between said electrodes.

6. (Previously Amended) A display device according to Claim 1, wherein said two electrodes are disposed on an identical plane in the cell structure so as to allow horizontal movement parallel to the plane of said colored charged particles.

7. (Withdrawn) An electrophoretic display device of a cell structure, comprising:

at least two electrodes;

fixing surfaces each associated with one of said at least two electrodes;

an electrophoretic layer disposed in the cell and comprising an insulating liquid and colored charged particles disposed in said electrophoretic layer; and

voltage application means for applying a voltage between said electrodes thereby causing migration of said colored charged particles toward and collective attachment onto one of said fixing surfaces,

wherein said fixing surfaces are provided by a charged film formed on the associated electrodes, said charged film having a constant surface charge of a polarity opposite to that of said colored charged particles regardless of a polarity of electricity supplied to the associated electrodes.

71
cont.

8. (Withdrawn) A display device according to Claim 7, wherein said charged film is formed on said fixing surfaces given by said electrodes.

9. (Withdrawn) A display device according to Claim 7, wherein said charged film comprises a ferroelectric material or an electret material.

10. (Withdrawn) A display device according to Claim 7, wherein said insulating liquid has a volumetric resistivity of at least 10^{12} ohm.cm.

11. (Withdrawn) A display device according to Claim 7, wherein said two electrodes are oppositely disposed in the cell structure so as to allow vertical movement of said colored charged particles between said electrodes.

12. (Withdrawn) A display device according to Claim 7, wherein said two electrodes are disposed on an identical plane in the cell structure so as to allow horizontal movement parallel to the plane of said colored charged particles.

13. (Previously Presented) A display device according to Claim 1, wherein said surface adhesive layer comprises a copolymer having polymerized units of comonomers selected from the group consisting of (meth) acrylate esters, (meth) acrylate acid, (meth) acrylonitrile vinyl esters and vinyl esters.

14. (Previously Presented) An electrophoretic display device of a cell structure, comprising:
an electrophoretic layer disposed in the cell and comprising an insulating liquid and charged particles disposed in said electrophoretic layer,
wherein said charged particles have a surface adhesive layer, and said surface adhesive layer comprises a polymer having a glass transition temperature (T_g) of -35°C to +35°C.

17
cancel